

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

Claims 1-7. (canceled)

8. (previously presented) An isolated protein, wherein (a) the protein comprises a sequence that has greater than 90% amino acid sequence identity to SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10 as measured using a sequence comparison algorithm, and (b) has microtubule stimulated ATPase activity.

9. (previously presented) An isolated protein of claim 8, wherein the protein specifically binds to polyclonal antibodies generated against a protein comprising SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10.

10. (previously presented) An isolated protein of claim 8, wherein the protein comprises SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10.

11. (currently amended) An isolated protein comprising ~~an~~ the amino acid sequence of SEQ ID NO:2.

12. (currently amended) An isolated protein comprising ~~an~~ the amino acid sequence of SEQ ID NO:4.

13. (currently amended) An isolated protein comprising ~~an~~ the amino acid sequence of SEQ ID NO:6.

14. (currently amended) An isolated protein comprising ~~an~~ the amino acid sequence of SEQ ID NO:8.

15. (currently amended) An isolated protein comprising ~~an~~ the amino acid sequence of SEQ ID NO:10.

16. (canceled)

17. (withdrawn) A method for screening a compound for anti-malarial activity, which method comprises

contacting the compound with a protein, wherein the protein (a) comprises a sequence that has greater than 90% amino acid sequence identity to SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, or SEQ ID NO:10 as measured using a sequence comparison algorithm, and (b) has microtubule stimulated ATPase activity; and

determining whether the compound binds to and inhibits the protein, any such binding and inhibition suggesting that the compound may have anti-malarial activity.

18. (withdrawn) A method of claim 17, wherein the screening occurs in a multi-well plate as part of a high-throughput screen.